through 62, and 74 through 79 — "Group II" of the claims as defined at page 2 of the Action.

(Applicant <u>previously</u> canceled claims 8, 9 and 13, claims 17 through 41, 63 through 65, and 70 through 72.)

Starting on the next page is a full presentation ("clean") of <u>all</u> the claims now in this case, namely:

- all claims amended hereby (claims 3 through 7, and claims 66 and 67);
- new claims hereby added (claims 80 through 96); and
- lacktriangle the <u>unamended claims</u> (claims 1, 2, 11, 12, 68, 69 and 73).

Regarding this claim-numbering format please see the "REMARKS" section, page 16.

<u>Marked-up copies</u> of the claims as amended in this document are provided below in the Appendix, <u>following the signature page</u>.

PLEASE NOTE:

For the Examiner's convenience, and consistent with 37 CFR § 121(c), the new claims are inserted into the claim sequence at the points where proposed — namely, new 80 through 86 following claim 2; new 87 and 88 following claim 7; and 89 through 96 following 73.

Thus the claims are in desired sequence though not in numerical order.

[Claims 1 and 2 below are original unamended claims.]

- 1 1. A laser projector comprising:
- 2 laser apparatus for projecting a picture beam that
- includes visible laser light of wavelength about six hundred
- 4 thirty-five (635) nanometers or longer; and
- a reflective liquid-crystal light valve for modulating
- 6 the beam with a desired image.
- 1 2. The projector of claim 1, wherein:
- 2 light that appears red in the beam comprises substan-
- 3 tially only said laser light of wavelength about 635 nanome-
- 4 ters or longer.
- 1 80. (new) The projector of claim 2, further comprising:
- means for also incorporating blue and green laser light
- into the picture beam; and
- separate, additional reflective liquid-crystal light
- 5 valves for modulating the blue and green light respectively.
- 1 81. (new) The projector of claim 80, wherein:
- said light valve also receives blue and green laser
- 3 light for modulation, within the same light valve.

- 82. (new) The projector of claim 2, further comprising:
- means for scanning the beam across a face of the light
- valve during projection of each image, rather than flooding
- 4 the entire face substantially simultaneously.
- 1 83. (new) The projector of claim 82, further comprising:
- means for also incorporating blue and green laser light
- into the picture beam; and
- separate, additional reflective liquid-crystal light
- valves for modulating the blue and green light respectively.
- 84. (new) The projector of claim 2, wherein:
- said light valve also receives blue and green laser
- light for modulation, within the same light valve.
- 85. (new) The projector of claim 82, wherein:
- 2 the laser apparatus comprises no solid-state lasers,
- 3 but rather exclusively lasers of gas type.
- 1 86. (new) The projector of claim 2, wherein:
- 2 the laser apparatus comprises no solid-state lasers,
- but rather exclusively lasers of gas type.

- 3. (amended) The projector of claim 86, wherein:
- said apparatus projects a beam in which light that ap-
- pears red is of wavelength between about 635 and 650 nano-
- 4 meters.
- 4. (amended) The projector of claim 1, wherein:
- said apparatus projects a beam in which light that ap-
- pears red is of wavelength substantially 647 nanometers.
- 1 5. (amended) The projector of claim 4, wherein:
- the image is a moving picture.
- 1 6. (amended) The projector of claim 1, further
- 2 comprising:
- further laser apparatus for projecting one or more
- 4 beams that include green and blue laser light; and
- wherein the laser light of wavelength about 635 nanome-
- 6 ters or longer mixes with the green and blue laser light to
- provide substantially pure neutral colors including pure
- 8 white and pure black.
- 7. (amended) The projector of claim 6, wherein:
- the further laser apparatus projects substantially cyan
- 3 native laser light with the blue or green light, or both.

- 87. (new) The projector of claim 6, further comprising:
- means for also incorporating the blue and green laser
- 3 light into said picture beam; and
- separate, additional reflective liquid-crystal light
- valves for modulating the blue and green light respectively.
- 1 88. (new) The projector of claim 6, wherein:
- said light valve also receives the blue and green laser
- light for modulation, within the same light valve.

[Claims 8 and 9 have been canceled.

Claims 10 through 12 below are original unamended claims.]

- 10. The projector of claim 6, further comprising:
- means for receiving high-bandwidth red, green and blue
- 3 computer-monitor signals from a computer;
- wherein the projector serves as a high-color-fidelity
- 5 computer monitor.
- 1 11. The projector of claim 6, wherein:
- the liquid-crystal light valve is not controlled by
- light derived from traditional broadcast video signals.

1	12. The projector of claim 11, wherein the liquid-crystal
2	light valve is controlled by light or control signals ap-
3	plied to the valve by writing onto a control stage of the
4	valve:
5	a vector, bitmap or other computer file scanned
6	from an image or generated in a computer, or
7	
8	amplitude-modulated laser-diode illumination swept
9	two-dimensionally across the control stage,
10	or
11	
12	images from a small transmissive liquid-crystal
13	display modulator, in turn written by signals
14	not derived from traditional broadcast video
15	signals, or
16	
17	other entire frames without interlace, or
18	
19	motion-picture film color separations, or
20	
21	a still image from a slide or overhead-projection
22	transparency, or a color separation made
23	therefrom, or
24	
25	a live image optically coupled, without electronic
26	intermediary, to the control stage.

[Claim 13 has been canceled.

Claims 14 through 16 below are original unamended claims.]

- 1 14. The projector of claim 6, wherein:
- the first-mentioned laser apparatus and the further
- laser apparatus, considered together, comprise one or more
- 4 lasers; and
- every laser in the first-mentioned laser apparatus and
- 6 the further laser apparatus is exclusively a solid-state
- 1 laser.
- 1 15. The projector of claim 6, wherein:
- the first-mentioned laser apparatus and the further
- laser apparatus, considered together, comprise one or more
- 4 lasers; and
- every laser in the first-mentioned laser apparatus and
- δ the further laser apparatus is exclusively a gas laser.
- 1 16. The projector of claim 1, further comprising:
- further laser apparatus for projecting one or more pic-
- ture beams that include green and blue laser light; wherein:
- the proportions of light power of the about 635-nan-
- ometer or longer-wavelength laser light, the green laser
- $_{\it 6}$ light and the blue laser light are roughly eight to six to
- 7 five (8:6:5)...

[Claims 17 through 65 have been canceled.]

- 1 66. (amended) A laser projection system for forming an
 - 2 image on an irregular projection medium having portions at
 - distinctly differing distances from the projector; said
 - 4 system comprising:
 - 1 laser apparatus for projecting a picture beam that
 - 6 includes laser light;
 - a liquid-crystal light valve for impressing an image
 - 8 onto the beam; and
 - means for projecting the beam from the light valve,
- 10 with-eath-impresent-impresent-neth-tremitar-projection

with said impressed image outo such irregular projection medium as a show for an audience.

1	67. (amended) The system of claim 66, wherein:
2	the irregular projection medium comprises one or more
3	projection media selected from the group consisting of:
4	
5	an interior of a dome, or other building having
6	internal surfaces that are not generally
7	normal to a projection direction,
В	an exterior of a dome, sculpture, monument, or
9	other structure having external surfaces that
10	are not generally normal to a projection
11	direction,
12	a waterfall,
13	a water fountain,
14	fog or a cloud,
15	ice,
16	a scrim in front of a curtain or screen,
17	a plurality of scrims in optical series,
18	one or more trees,
19	grass, vines or other foliage,
20	a hillside or other landscape, or other receding
21	surface, and
22	an array of people or other animals or other dis-
23	crete objects, or combinations thereof, at
24	diverse distances from the projecting means;
25	and
26	
27	the projecting means display a protracted show on the
28	one or more projection media, for the audience.

[Claims 68 and 69 below are original unamended claims.]

- 68. The system of claim 67, further comprising:
- such irregular projection medium.
- 1 69. The system of claim 66, further comprising:
- such irregular projection medium.

[Claims 70 through 72 have been canceled.

Claim 73 is an original unamended claim.]

- 73. The system of claim 66, wherein:
- 2 the laser apparatus comprises one or more lasers; and
- every laser in the laser apparatus is exclusively a
- 4 solid-state laser.

[Claims 74 through 79 have been canceled.

Claims 80 through 88 appear above in sequence.]

1	89. (new) The projector of claim 66:
2	wherein the laser apparatus projects red laser light in
3	the picture beam; and
4	the light valve impresses red components of an image
5	onto the red laser light; and
6	further comprising:
7	
В	means for also incorporating blue and green laser
9	light into the picture beam, and
10	
11	separate, additional liquid-crystal light valves for
12	respectively impressing blue and green components
13	of the image onto the blue and green light.

- 90. (new) The projector of claim 66, wherein:
- said light valve receives laser light components of
- three respective colors and impresses corresponding color
- 4 components of the image onto the three respective light com-
- ponents, respectively, all within the same light valve.

- 1 91. (new) A laser projection system for forming an image
- on an irregular projection medium having portions at dis-
- 3 tinctly differing distances from the projector; said system
- 4 comprising:
- 5 laser apparatus for projecting a picture beam that
- 6 includes laser light;
- a liquid-crystal light valve for impressing an image
- onto the beam; and
- means for projecting the beam from the light valve,
- with said impressed image, onto such irregular projection
- medium to form a substantially sharp image on such medium at
- 12 such distinctly differing distances.

1	92. (new) The system of claim 91, wherein:
2	the irregular projection medium comprises one or more
3	projection media selected from the group consisting of:
4	
5	an interior of a dome, or other building having
6	internal surfaces that are not generally
7	normal to a projection direction,
8	an exterior of a dome, sculpture, monument, or
9	other structure having external surfaces that
10	are not generally normal to a projection
11	direction,
12	a waterfall,
13	a water fountain,
14	fog or a cloud,
15	ice,
16	a scrim in front of a curtain or screen,
17	a plurality of scrims in optical series,
18	one or more trees,
19	grass, vines or other foliage,
20	a hillside or other landscape, or other receding
21	surface, and
22	an array of people or other animals or other dis-
23	crete objects, or combinations thereof, at
24	diverse distances from the projecting means;
25	and
26	
27	the projection means form the substantially sharp image
28	on substantially each element of the selected one or more
29	media.

- 93. (new) A laser projector comprising:
- 2 laser apparatus for projecting a picture beam that
- 3 includes visible laser light of wavelength longer than 640
- 4 nanometers; and
- a reflective liquid-crystal light valve for modulating
- the beam with a desired image.
- 1 94. (new) The projector of claim 93, wherein:
- said apparatus projects a beam of wavelength substan-
- tially 647 nanometers.
- 95. (new) The projector of claim 93:
- wherein the light valve impresses red components of an
- image onto the laser light of wavelength longer than 640
- 4 nanometers; and
- 5 further comprising:
- means for also incorporating blue and green laser
- 8 light into the picture beam, and
- separate, additional liquid-crystal light valves for
- respectively impressing blue and green components
- of the image onto the blue and green light.